

9198-117

7/24/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Dawn Walters
Product Registration
The Andersons Lawn Fert. Div., Inc
PO Box 119
Maumee, OH 43537

JUL 24 2008

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request General Label Change (Marketing Claims)
EPA Reg. No. 9198-117
Application Dated June 13, 2008

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 06/13/08 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060, Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 9198-117	2. EPA Product Manager Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) The Andersons Dimension Herbicide IV	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) The Andersons Lawn Fertilizer Division, Inc. d/b/a Free Flow Fertilizer PO Box 119 Maumee, OH 43537 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

JUL 24 2008

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Label change per PR Notice 98-10: Added optional marketing text. See cover letter for details.

This notification is consistent with the guidance of PR Notice 98-10 and the requirements of EPA's regulations at 40 CFR 156.10 and 40 CFR 152.46 and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the guidance of PR Notice 98-10 and the requirements of 40 CFR 156.10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
				<input checked="" type="checkbox"/> Glass	<input checked="" type="checkbox"/> Paper
				Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 10-2000 lbs.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label	
6. Manner in Which Label is Affixed to Product		<input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input checked="" type="checkbox"/> Other pocket	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Dawn L. Walters	Title Regulatory Administrator	Telephone No. (Include Area Code) 419-897-6790
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Dawn L. Walters</i>	3. Title Regulatory Administrator	
4. Typed Name Dawn L. Walters	5. Date 6/13/08	

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The Andersons, Inc.

P.O. Box 119 • Maumee, Ohio 43537 • 419/893/5050

June 13, 2008

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
US Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

RE: Notification of Minor Label Change

SUBJECT: The Andersons Dimension Herbicide IV
EPA Reg. No. 9198-117

Per PR Notice 98-10 enclosed is EPA Form 8570-1, an application notifying the Agency of a revision to the labeling for the subject registration. One copy of the revised labeling is enclosed with the additions underlined and marked in blue.

Added the following optional marketing claims:

- Combination fertilizer and Dimension® preemergent herbicide
- Contains NS-54™ polymer coated, sulfur coated urea as the slow release nitrogen source
- Provides preemergent control of crabgrass and other listed annual grasses and broadleaf weeds
- Provides early postemergence crabgrass control in limited conditions
- Consistently sized particles reduce segregation potential
- Small particle formulation more particles per square inch for better herbicide distribution
- Nitrogen content includes XX% NS-54™ for slow release nitrogen feeding
- Low nitrogen, high potassium formula
- High active ingredient concentration to accommodate high herbicide rates
- Contains iron for deep greening
- Contains DG Pro dispersible carrier for enhanced herbicide distribution
- Utilizes both potassium chloride and potassium sulfate to build turf tolerance

If there are any questions or comments regarding this notification, please contact me.

Sincerely,
The Andersons Lawn Fertilizer Division, Inc.

Dawn L. Walters

Dawn L. Walters
Regulatory Administrator
Phone: 419-897-6790
Fax: 419-891-2745
Email: dawn_walters@andersonsinc.com

Enclosures

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(FRONT PANEL)
COMMERCIAL USE ONLY

(The above is for internal use only and will not appear on the final label copy)

THE ANDERSONS DIMENSION HERBICIDE IV

This product is a herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns and ornamental turfs.

Optional marketing claims:

- Utilizes Poly-S® for slow release nitrogen feeding
- Includes DG Pro® for enhanced herbicide distribution
- Contains potassium sulfate for reduced burn potential
- Combination fertilizer and Dimension® preemergent herbicide
- Contains NS-54™ polymer coated, sulfur coated urea as the slow release nitrogen source
- Provides preemergent control of crabgrass and other listed annual grasses and broadleaf weeds
- Provides early postemergence crabgrass control in limited conditions
- Consistently sized particles reduce segregation potential
- Small particle formulation more particles per square inch for better herbicide distribution
- Nitrogen content includes XX% NS-54™ for slow release nitrogen feeding
- Low nitrogen, high potassium formula
- High active ingredient concentration to accommodate high herbicide rates
- Contains iron for deep greening
- Contains DG Pro dispersible carrier for enhanced herbicide distribution
- Utilizes both potassium chloride and potassium sulfate to build turf tolerance

ACTIVE INGREDIENTS:

Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-
 -6-(trifluoromethyl)-S,S- dimethyl ester..... 0.25%

INERT INGREDIENTS..... 99.75%

TOTAL..... 100.00%

EPA Reg. No. 9198-117
 EPA Est. No. 9198-OH-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Visit our website: AndersonsGolfProducts.com
 SGN XXX
 Covers up to XX,XXX Square Feet

NET WEIGHT _____ LBS.

(BACK PANEL)

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NET WEIGHT _____ LBS.

The Andersons Dimension Herbicide IV

GUARANTEED ANALYSIS

Total Nitrogen (N).....	16%
Available Phosphate (P ₂ O ₅).....	4%
Soluble Potash (K ₂ O).....	4%
Primary Plant Food derived from: Urea, Muriate of Potash, Ammoniated Phosphates.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

CAUTION

Causes eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact while handling this material may cause allergic reaction in some individuals.

FIRST AID

- If in eyes Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contacts, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

- If swallowed Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

- If on skin or clothing Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

- If inhaled Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-757-8951 for emergency medical treatment information.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

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(BACK PANEL)

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Read the entire label before using this product.

Use only according to label instructions.

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

New York Use Restrictions: In New York State this product may only be used by professional applicators and at no more than 4.6 pounds per 1000 square feet (equal to 0.5 pound active ingredient per acre) per year, and is prohibited from use in Nassau and Suffolk Counties.

GENERAL INFORMATION

This product is a herbicide that provides control of crabgrass and other annual grasses and broadleaf weeds in established lawns and ornamental turfs, including golf course fairways, roughs, and tee boxes and greens. This product will not harm nearby established ornamentals when used according to label directions.

USE PRECAUTIONS

TURFGRASS SAFETY

This product may be used on seeded, sodded, or sprigged lawns and ornamental turfs that are well-established. The grass must have developed a good root system and a uniform stand, and have received at least two mowings following its seeding, sodding, or sprigging before it can receive its first application of this product. Use of this product on lawns and ornamental turfs that are not well-established, or on those that have been weakened by weather-, pest-, disease-, chemical-, or mechanical-related stress, may increase the chances for turf injury.

This product should only be applied to lawns and ornamental turfs that are composed of the following turfgrass species that have been determined to be tolerant to applications of this product. When applied as directed under the conditions described, the following established turfgrasses are tolerant to this product:

(BACK PANEL)

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Cool-Season Grasses

- Bentgrass, creeping*
- Agrostis palustris
- Bluegrass, Kentucky
- Poa pratensis
- Fescue, fine**
- Festuca rubra
- Fescue, tall
- Festuca arundinacea
- Ryegrass, perennial
- Lolium perenne

Warm-Season Grasses

- Bahiagrass
- Paspalum notatum
- Bermudagrass
- Cynodon dactylon
- Buffalograss***
- Buchloe dactyloides
- Carpetgrass
- Axonopus affinis
- Centipedegrass
- Eremochloa ophiuroides
- Kikuyugrass
- Pennisetum clandestinum
- St. Augustinegrass
- Stenotaphrum secundatum
- Zoysiagrass
- Zoysia japonica

* Use of this product on certain varieties of creeping bentgrass, such as 'Cohansey', 'Carmen', 'Seaside', and 'Washington' may result in undesirable turfgrass injury. Not all varieties of creeping bentgrass have been tested.

DO NOT apply this product to Colonial bentgrass (Agrostis tenuis) varieties.

**Use of this product on certain varieties of fine fescue may result in undesirable turf injury. The following fine fescue varieties have been found to be sensitive to this product: 'Atlanta', 'Banner', 'Beauty', 'Bilgart', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Waldorf', and 'Waldina'. Not all varieties of fine fescue have been tested.

***DO NOT use this product on seedling buffalograss in the spring of the first year of establishment until the turfgrass is fully green and has established new roots.

NOTE: It is recommended that use of this product be made on a trial basis initially to determine its safety under local use conditions and turf management practices before making widespread use.

RESEEDING, OVERSEEDING, OR SPRIGGING

Reseeding, overseeding, or sprigging of treated areas within 4 months after application of this product may inhibit the establishment of desirable turfgrasses. When reseeding or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed. For best results, use mechanical or power seeding equipment (slit seeders) designed to give good seed to soil contact.

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GOLF COURSE PUTTING GREENS

Putting greens should be well-drained and managed to promote the development of deep rooting systems. The use of this product on greens without good root development may result in undesirable turfgrass injury.

For golf courses which practice overseeding putting greens consisting of seasonal turfgrasses, application of this product to overseeded greens should be made within four weeks or less before the desired transition period from the overseeded turfgrass(es) back to the established "base" turfgrass.

Avoid application of this product to golf course putting greens that are under stress.

Undesirable thinning, yellow and rapid decline of established *Poa annua* may occur under stress conditions. **DO NOT** use this product on greens that have desirable *Poa annua* cover where summer heat and/or other stresses to *Poa annua* can occur and loss of some or all of that *Poa annua* cover is unacceptable. Use this product where the goal is to control and/or eliminate some or all of the *Poa annua* and where this loss can be tolerated.

Use of this product on 'Tifgreen' (328) hybrid bermudagrass greens may result in injury. Prior to use, test on a small section of turf.

DO NOT apply this product less than 60 days before covering greens for winter protection.

OTHER USE PRECAUTIONS

The early postemergence crabgrass control described below is limited. Postemergence applications are only effective on crabgrass if applied before crabgrass has displayed its fifth leaf or first tiller.

For best results, cultural practices that disturb the soil, such as core-, spike-, or hydro-aerification, and verticutting, should be done before application of this product. **DO NOT** apply this product until the grass has recovered from these cultural practices.

Apply this product directly to established lawns or ornamental turfs only. **DO NOT** apply to flowers, vegetables, shrubs, or trees.

DO NOT use clippings from treated turf for mulching around vegetables or fruit trees.

Keep people and pets off treated areas until dust has settled.

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APPLICATION DIRECTIONS

Table 1: Recommended Application Use Rates*
(lbs of this product/1000 sq. ft.)

PROGRAM	1	2	3	4
USE (turfgrass cut)	Preemergence (high)	Preemergence (low) Postemergence (high)	Preemergence (low) Postemergence (low)	Golf Course Putting Green Mowing Height less than 1/4 inch**
REGION				
North	1.2	1.7	2.3	2.3
Transition	1.7	2.3	3.4	2.3
South	2.3	3.4	4.6	2.3 + 2.3
Coastal South	3.4	4.6**	4.6**	3.4 + 2.3 + 2.3

*DO NOT apply more than 4.6 lbs. per application, and no more than 13.8 lbs. per year. Postemergence control is limited; see "Crabgrass Control" and "Precautions" sections above. Regions include areas listed below.

- North: All other areas.
- Transition: DE, KS, KY, MD, MO, NJ, VA, southeastern PA, southern areas of IL, IN, OH, & coastal areas of CT, NY, & RI.
- South: AL, AR, AZ, CA, GA, LA, MS, NC, NM, NV, OK, SC, TN, & TX.
- Coastal South: HI, FL, & southern coastal areas of AL, GA, LA, MS, NC, SC, & TX.

**May require split or sequential applications for full control.

CONTROL OF CRABGRASS

Preemergence and Early Postemergence Control

This product provides "preemergence" control of crabgrass (including the large, smooth, and southern species) when applied prior to the emergence of crabgrass from the ground in established lawns and ornamental turfs.

It can also provide "early postemergence" control of crabgrass during the early stages of crabgrass growth after the crabgrass has emerged from the ground. However, it is often difficult to see the very small, early stages of crabgrass in well-established lawns and ornamental turfs. Postemergence crabgrass control will be obtained only when this product is applied prior to the tillering of crabgrass, which generally corresponds to the time when you can first easily see the crabgrass plants in the lawn or turf. So the practical benefit of this product's additional, early postemergence activity is that (compared to strictly preemergence crabgrass products) it can give the user a 2-4 week longer period of time to make applications and still control crabgrass.

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Application Frequency and Timing

This product may be applied as a single application, as a split application, or as a sequential application for crabgrass control in the spring, summer, or fall.

DO NOT apply more than 4.6 lbs. per 1000 sq. ft. per application, and no more than 13.8 lbs. per 1000 sq. ft. per year.

Spring Applications

For single applications made in the spring or early summer, this product should be applied at the appropriate rate corresponding to one of the three control programs listed in Table 1 below, depending on the user's location, the turfgrass mowing height, and whether the use is considered to be preemergence or early postemergence at the time of the application. The duration of residual weed control provided by this product is directly related to the total rate applied, but will vary somewhat depending on weather, weed pressure, turfgrass competitiveness, and the user's location within a region.

Use Program 1 for preemergence control at sites where the turfgrass is cut high (e.g., homeowner lawns). This program provides 3-5 months of preemergence crabgrass control. This program should not be used for early postemergence crabgrass control.

Use Program 2 for preemergence control at sites where (a) turfgrass is cut low (e.g., golf fairways), and (b) turfgrass maintenance or weed control has been conducted during the previous year. This program provides 4-6 months of preemergence crabgrass control. This program may also be used for early postemergence control at sites where turfgrass is cut high (e.g., homeowner lawns).

Use Program 3 for preemergence control at sites where (a) turfgrass is cut low (e.g., golf fairways) and (b) turf maintenance or weed control has not been conducted during the previous year. This program provides 4-6 months of preemergence crabgrass control. This program may also be used for early postemergence control at sites where turfgrass is cut low (e.g., golf fairways).

Subsequent, sequential pre- and/or postemergence applications should be made where longer periods of control are desired.

Where split fertilizer applications are recommended, the rates in Table 1 may be split across two applications made 6-10 weeks apart and prior to crabgrass emergence.

Fall Applications

This product can also be applied in the late summer or early fall (late August through November) at the "Program 3" use rates listed in Table 1 to provide control of crabgrass through the early part of the next spring.

The fall application should be followed by an appropriate spring application to provide season-long control.

Tips For Improved Control

For best results, apply this product within a few days after mowing and delay mowing again for a few days after the application.

(BACK PANEL)

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When treated lawn or ornamental turf areas are watered or receive significant rainfall within a few days after application of this product, improved weed control may result.

Use of split (half-rate) applications spaced 6-8 weeks apart may provide improved weed control.

CONTROL OF OTHER GRASS AND BROADLEAF WEEDS

Spring Applications. Used as directed for crabgrass control in the spring, this product will also control (at the "Program 3" rates) or suppress (at the "Program 2" rates) the following weeds when applied prior to their emergence:

- | | |
|--------------------------------|--|
| barnyardgrass | lespedeza (common) |
| bluegrass (annual, roughstalk) | oxalis (buttercup, creeping & yellow woodsorrel) |
| goosegrass | purslane (common) |
| crowfootgrass | speedwell (com) |
| foxtail (yellow & green)* | spurge (prostrate & spotted) |
| kikuyugrass | |
| ryegrass (annual & perennial) | |
| smutgrass | |

*Also controlled at the Program 2 rates.

Fall Applications. Used as directed for late summer or early fall use, for crabgrass control through the early part of the next spring, this product will also control (at the "Program 3" rates) or suppress (at the "Program 2" rates) the following weeds when applied prior to their emergence:

- | | |
|------------------------------|---------------------|
| bluegrass (annual)-Poa annua | geranium (Carolina) |
| bittercress | parsley-piert |
| chickweed | pineappleweed |
| henbit | shepherdspurse |

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary-type spreaders designed to apply granular herbicides. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Before each application, calibrate the spreader according to the equipment manufacturer's directions for adjusting the spreader settings such that the spreader delivers the appropriate application rate recommended above. Apply this product uniformly over the lawn or ornamental turf area. A more uniform application can be made by spreading half of the required amount over the area and then applying the remaining half at a right angle to the previous direction. Avoid streaking, skips, or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

Suggested Spreader Settings
(Available at final printing)

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STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.
PESTICIDE STORAGE: Keep container closed and away from food, feedstuffs, and domestic water supplies. **PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **CONTAINER DISPOSAL:** Completely empty bag into application equipment. Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If not available, then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State or local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION - LANDSCAPE ORNAMENTALS

This product provides preemergence control of listed annual grass and broadleaf weeds in landscape ornamentals. It may be applied to soil surfaces where ornamental plants are grown for aesthetic purposes in ornamental gardens, and residential properties.

Ornamental plants on this label have shown tolerance to this product when applied as directed. It is impossible, however, to evaluate tolerance for all ornamental plant species or varieties or under all possible growing conditions. Under your growing conditions, a limited area involving only a few plants should be treated for tolerance evaluation prior to large-scale applications.

USE RATES

Apply this product with a properly calibrated spreader which will assure accurate, even particle distribution. This product may be applied as a single application or as a split application. Refer to the following table for product recommendations when treating a small area.

DO NOT apply more than 4.6 pounds per 1,000 square feet per application and no more than 13.8 pounds (4.6 pounds in New York) per 1,000 square feet per year. Do not apply in Nassau and Suffolk Counties of New York.

Pounds of Product per 1,000 square feet	Ounces of Product per 100 Square Feet
4.6	7.36

APPLICATION TIMING AND RECOMMENDATIONS

This product is a preemergence herbicide that will not control established weeds. Make applications prior to weed seed germination or to bare ground. The best weed control is obtained when applied to soil that is free of clods, weeds and debris such as leaves. Prior to making an application, control existing vegetation by hand weeding, cultivation or with a postemergence herbicide. Once an application of this product has been made, do not disturb the soil surface as the herbicide barrier will be broken.

PRECAUTIONS

- Only apply this product to established ornamentals.
- Do not apply this product directly to bare root of ornamental plants as injury may result.
- Do not incorporate this product into soil. Dilution of active ingredient and possible injury to plant roots may occur.
- Do not apply to soil around ornamental plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, wind injury, hail, frost damage, winter injury, injury from previously applied pesticides or injury due to insects, nematodes or disease.

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- To avoid foliar damage to ornamentals, irrigate immediately after application to remove herbicide particles from the foliage.
- Do not apply under conditions that would affect product distribution. Wind could affect distribution and move product onto sensitive species. Uneven product distribution will result in uneven weed control.
- Do not apply this product on grasses grown for seed.
- Do not graze livestock or feed forage cut from areas treated with this product.

TOLERANT ORNAMENTALS

When applied as directed under the conditions described on this label, ornamentals listed below have shown tolerance in field trials. However, this product has not been tested on all cultivars of each species or under all possible growing condition. Follow directions given above to determine plant tolerance under your growing conditions prior to large scale use.

COMMON NAME	BOTANICAL NAME	TOLERANT CULTIVARS
Abelia, Dwarf	Abelia X Grandiflora	Nana
Ajuga	Ajuga reptans Ajunga genevensis	Bronze Bronze Beauty
Almond, Flowering	Prunus glandulosa	
Apple*	Malus pumila	
Arbovitae	Thuja occidentalis	Nigra Pyramidalis Smaragh Techny Woodwardii
Arborvitae, Golden	Thuja orientalis	
Aster, Chinese	Callistephus chinensis	Dwarf Queen
Ash, Green	Fraxinus pennsylvanica	
Ash, Mountain	Sorbus acucparia	
Ash, Purple	Fraxinus americana	
Azalea	Rhododendron spp.	Brillant Buccaneer Carror Chimes (Belgian) Exbury Fashion Hardijzer Beauty Hershey Red Higasa Hinocrimson Holland (Hybrid) Marion Lee Northern Lights Orange Cup Orchid Lights Snow Southern Charm
Azalea, Flame	Rhododendron calendulaceum	
Azalea, Kirishima		
Bamboo, Heavenly		
Barberry	Berberis thunbergii	Aurea Dwarf Pigmy

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		Green Kobold Pygmy Red Rose Glow
Barberry, Purple		Atropurpurea
Bearberry (common)	Arctostaphylos uva-ursti	Massachusetts
Birch, River	Betula nigra	
Blueberry*	Vaccinium spp.	Bluecorp Blue Jay Jersey North Blue Northland
Bottlebrush	Callistemon citrinum	
Boxwood, Japanese		Japonica
Boxwood, Weller	Buxus sempervirens	
Broom	Cytisus spp.	Moonlight
Broom	Genista pilosa	Vancouver Gold
Bugle Carpet		
Carex, Variegated	Carex	
Camellia	Camellia japonica	Debutante Mathotiana Supreme Chansonette
	Camellia sasangua	
Cedar, Red	Juniperus virginiana	
Cockscomb, Plumosa	Celosia cristata	Red Kewpie
Coleus	Coleus blumei	
Copper leaf	Acalypha wilkesiana	
Cotoneaster	Cotonester apiculatus	
Cycads	Cycads revoluta	
Coyotebrush	Baccharis pelularis	
Cypress, Bald	Taxodium distichum	
Cypress, Italian	Cupressus sempervirens	Glauca
Cypress, Leyland	Cupressocyparis leylandii	
Cypress, Japanese False	Chamaecyparis obtusa	Gracilis
Daffodil	Narcissus spp.	King Alfred
Daylilly	Hemerocallis spp.	Aztec Gold Bright Yellow (Hybrid) Single Gold (Evergreen) Wilson's Yellow
Dogwood	Cornus florida	
Dogwood, American	Cornus sericea	
Douglas Fir	Pseudotsuga menziesii	
Dusty Miller	Senecio cineraria	
Elm, Drake	Ulmus parvifolia	
Euonymus	Euonymus fotunei	Argenteo-variegata Auereo-marginata Colorata Emerald Gaiety Emerald 'N Gold Gold Edge Gold Princess

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		Silver King Tricolor Vegetus
Fan Palm, European	Chamaerops humilis	
Fan Palm, Mexican	Washingtonia robusta	
Fescue	Festuca glauca	
Fetterbush	Leucothoe fontiana	Rainbox
Ficus	Ficus retusa	Nitidia
Forsythia	Forsythia X intermedia	Arnold Dwarf Bronxensis Dwarf Lynwood Gold Meadowlark Weeping
	Spring Glory	
Fir Fraser	Abies fraseri	
Gardenia	Gardenia jasminoides	Mystery Radicans
Geranium	Pelargonium X hortorum	
Gum	Eucalyptus citriodora	
Hawthorn	Crataegus spp.	Cockspur White Crimson Cloud Enchantress Jack Evans Washington White
Heather, Twisted	Erica cinerea	Mediterranean Pink
Hibiscus	Hibiscus spp.	Brilliant Hula Girl Blue Bird
Hemlock, Canada	Tsuga canadensis	
Holly	Ilex spp.	Blue Boy Blue Girl Burfodii China Girl Ciompacta Forsteri Hellerie Japanese Northern Beauty Needlepoint Nellie R. Stevens Savanah
	Ilex X meserveae	
	Ilex X attenuata	
Holly, Chinese	Ilex cornuta	
Holly, Japanese	Ilex crenata	
Holly, Yaupon	Ilex vomitoria	
Honeysuckle	Lonicera japonica	Clavey's Dwarf Halliana Tatarian Canadian White Zebelli Red Hosta
Hosta	Hosta spp. Hosta lancifolia	Algo Marginata
Ice Plant	Carpobrotus edulis	
Impatiens	Impatiens wallerana	
Iris	Iris spp.	Wedgewood

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		Dwarf blue
Ivy, English	Hedera helix	Bulgaria Thorndale
Jasmine, Asian	Trachelopermum asiaticum	
Juniper	Juniperus spp.	Arcadia Armstrong Bar Harbor
	Juniperus horizontalis	Blue Chip Blue Pacific Blue Rug
	Juniperus horizontalis	Blue Star Broadmoor Buffalo Calgary Carpet Emerald Sea Emerald Spreader Endora Compacta Fuitlandi Green Gold Tip Hetzi Hughes Manhattan Blue Parsoni Pfitzeriana Plumosa Prince of Wales Procumbens Dwarf San Jose Sargent Blude Sargent Green Scandia Scopulorum Moonglow Scopulorum Skyrocket Spartan
	Juniperus chinesis	Tamariscifolia
	Juniperus sabina	Weberi Youngstown Yukon Belle
King Palm	Archontophoenix cunninghamiana	
Laurel, Australian	Pittosporum tobira	
Laurel, Mountain	Kalmia latifolia	
Leucothoe	Leucothoe fontanesiana	
Lily, Africian	Agapanthus africanus	Albus Peter Pan
Lily, African Blue		
Lily of the Valley	Pieris japonica	Mt. Fire
Lilyturf	Liriope muscari	Evergreen Giant Lilac Beauty Majestic Monroe White

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		Variegata
Ligustrum, Japanese	Ligustrum japonicum	
Liriope, Green	Liriope spicata	
Maple, Japanese	Acer japonicum	
Maple, Norway	Acer platanoides	
Maple, Red	Acer rubrum	
Maple, Siviler	Acer saccharinum	
Maple, Sugar	Acer saccharum	
Marigold	Tagetes patula	Honeycomb Wheeler's Dwarf Variegata
Mock Orange*	Philadelphus spp	Golden Snowflake Double White
Mopndo Grass	Ophiopogon japonicus	
Moss Rose	Portulaca grandiflora	Sunnyside
Myrtle, Crape	Lagerstoemia indica	Faurei Langer Muskogee Standard Pink
Myrtle, Wax	Myrica cerifer	
Nadina	Nadina domestica	Compacta Nana
Oleander	Nerium oleander	Hardy Red Petite Pink Sister Agnes
Oak, Laurel	Quercus laurifolia	
Oak, Pin	Quercus palustris	
Oak, Red	Quercus rubra	
Oak, Southern L	Quercus virginiana	
Oak, Willow	Quercus phellos	
Oteospermum	Osteospermum fruitcosum	Wirligig
Palm, Bangalow		
Pampas Grass	Cortadaria selloana	
Paper Flower	Bougainvillea glabra	Barbara Karst
Pachysandra	Pachysandra terminalis	
Peach*	Prunus persica	
Periwinkle, Dwarf	Vinca minor	
Petunia	Petunia X hybrida	Picoti
Photinia, Red Tip	Photinia X fraseri	
Pieris	Pieris japonica	
Pine, Australian	Pinus nigra	
Pine, Japanese Black	Pinus thumbergiana	
Pine, Loblolly	Pinus teada	
Pine, Longleaf	Pinus palustris	
Pine, Mugho	Pinus mugho	
Pine, Scotch	Pinus sylvestris	
Pine, Slash	Pinus eliottii	
Pine, Swiss Mt.	Pinus mugo	
Pine, Virginia	Pinus virginiana	
Pine, White	Pinus strobus	
Pineapple, Guava	Feijoa fellowaiana	

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Pittosporum, Japan		
Potentilla	Potentilla fruticosa	Abbotswood
Privet	Ligustrum japonicum	Golden Vicary Regal Texanum Yellow Tipped Wax
Privet, Glossy	Ligustrum lucidum	
Pyracantha	Pyracantha koidzumii	
Queen Pam	Arecastrum rammanzoffianum	
Quince, Japanese*		
Rhododendron	Rhododendron spp	Album Cunningham White Fashion Hardy PJM Purple Gem Silvery Pink
Rhododendron, Carolina	Rhododendron carolinianum	
Rhododendron, Catawba	Rhododendron catawbiense	
Rodie Max (Rosebay)	Rhododendron maximum	
Rose	Rosa banksiaae	Luta
Rosemary*	Rosmarinum officinalis	
Rosemary, Bog	Andromeda polifolia	Nana
Salvia	Salvia farinacea	Rhea
Sedum	Sedum spurium	Dragon Blood Red Red Carpet Yellow
Spiraea	Astilbe X arendsii	Fanall
Spiraea	Spiraea spp.	Anthony Waterer Red Dolchica Froebeli Pink Goldenflame Red Snowmound White Van Houttee White
Spiraea, Garland	Spiraea spp.	
Spruce, Black Hills	Picea glauca	
Spruce, Colorado Blue	Picea pungens	
Spruce, Norway	Picea abies	
Spruce, White	Picea glauca	
Sourwood	Oxydendrum arboreum	
Sweetflag, Grassyy-Le		
Sweetgum	Liquidambar styraciflua	
Sycamore	Platanus occidentalis	
Tree Fern (Tiki Fern)	Asparagus virgatus	
Trumpet Flower, Evening	Gelsemium sempervirens	
Tulip	Tulip, spp	Apeldoorn
Verbena, Shrub	Lantana sellowiana	
Vervain	Verbena spp.	St. Paul
Viburnum	Viburnum spp.	American Cranberry Bush Arrowood

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		Common Snowball European Cranberry Bush Linden Mohican Wright
Windmill Palm	<i>Trachycarpus fortunei</i>	
Xylosma	<i>Xylosma congestum</i>	
Yaupon	<i>Ilex vomitoria</i>	Dwarf
Yew	<i>Taxus cuspidata</i> <i>Taxus X media</i>	Denisiformis

***Ornamental species only: DO NOT USE ON FOOD PRODUCING TREES AND ORNAMENTALS**

WEEDS CONTROLLED

When used as directed, this product will control or suppress the following annual grass and broadleaf weeds when applied prior to their emergence. This product will not control established grasses except for crabgrass in early stages of development, and broadleaf weeds, therefore, the area to be treated should be free of weeds prior to application.

GRASSES

- barley (*Hordeum* spp.)
- barnyardgrass (*Echinochloa crus-galli*)
- bluegrass, annual (*Poa annua*)
- brome (*Bromus* spp.)
- crabgrass, large (*Digitaria sanguinalis*)
- crabgrass, smooth (*Digitaria ischaemum*)
- crabgrass, Southern (*Digitaria ciliaris*)
- crowfootgrass (*Dactyloctenium aegyptium*)
- dallisgrass (seedling) (*Paspalum dilatatum*)
- goosegrass (*Eleusine indica*)
- foxtail, green (*Setaria verdi*)
- foxtail, yellow (*Setaria faberi*)
- kikuyugrass (*Pennisetum clandestinum*)
- oats, wild (*Avena fatua*)
- ryegrass (annual & pernnial) (*Lolium* spp.)
- smutgrass (*Sporobolus poireti*)

BROADLEAF WEEDS

- bittercress (*Cardamine* spp.)
- carpetweed (*Mollugo verticillata*)
- chickweed (*Stellaria* spp.)
- geranium, Carolina (*Geranium carolinianum*)
- henbit (*Lamium* spp.)
- knotweed, prostrate (*Polygonum saviculare*)
- lespedeza, common (*Lespedeza striata*)
- marestail (*Hippuris vulgaris*)
- medic, black (*Medicago lupulina*)
- mustard (*Brassica* spp.)
- oxalis, buttercup (*Oxalis pes-caprae*)
- pineappleweed (*Matricaria matricarioides*)
- pigweed, redroot (*Amaranthus retroflexus*)
- parsley-piert (*Alchemilla avrensis*)
- purslane, common (*Portulaca oleracea*)
- rocker, London (*Sisymbrium irio*)
- shepherdspurse (*Capsella bursa-pastoris*)
- speedwell, corn (*Veronica arvensis*)
- spurge, garden (*Euphorbia hirta*)
- spurge, prostrate (*Euphorbia humistrata*)
- spurge, spotted (*Euphorbia maculata*)
- woodsorrel, creeping (*Oxalis corniculata*)
- woodsorrel, yellow (*Oxalis stricta*)

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IMPORTANT: READ BEFORE USE:

Read the entire Directions for Use and the Warranty Disclaimer and Limitation of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or Buyer accepts the following Warranty Disclaimer and Limitation of Liability:

WARRANTY DISCLAIMER and LIMITATION of LIABILITY:

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. Manufacturer makes NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To the extent consistent with applicable law, it is Manufacturer's intent to LIMIT ANY LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL ECONOMIC DAMAGES to refund of purchase price or replacement of product, at Buyer's choice. To the extent consistent with applicable law, Manufacturer DISCLAIMS ANY LIABILITY FOR COMPENSATORY OR OTHER DAMAGES ARISING OUT OF ANY USE CONTRARY TO LABEL DIRECTIONS. Use contrary to label directions is not permitted.

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